

FIG. 1

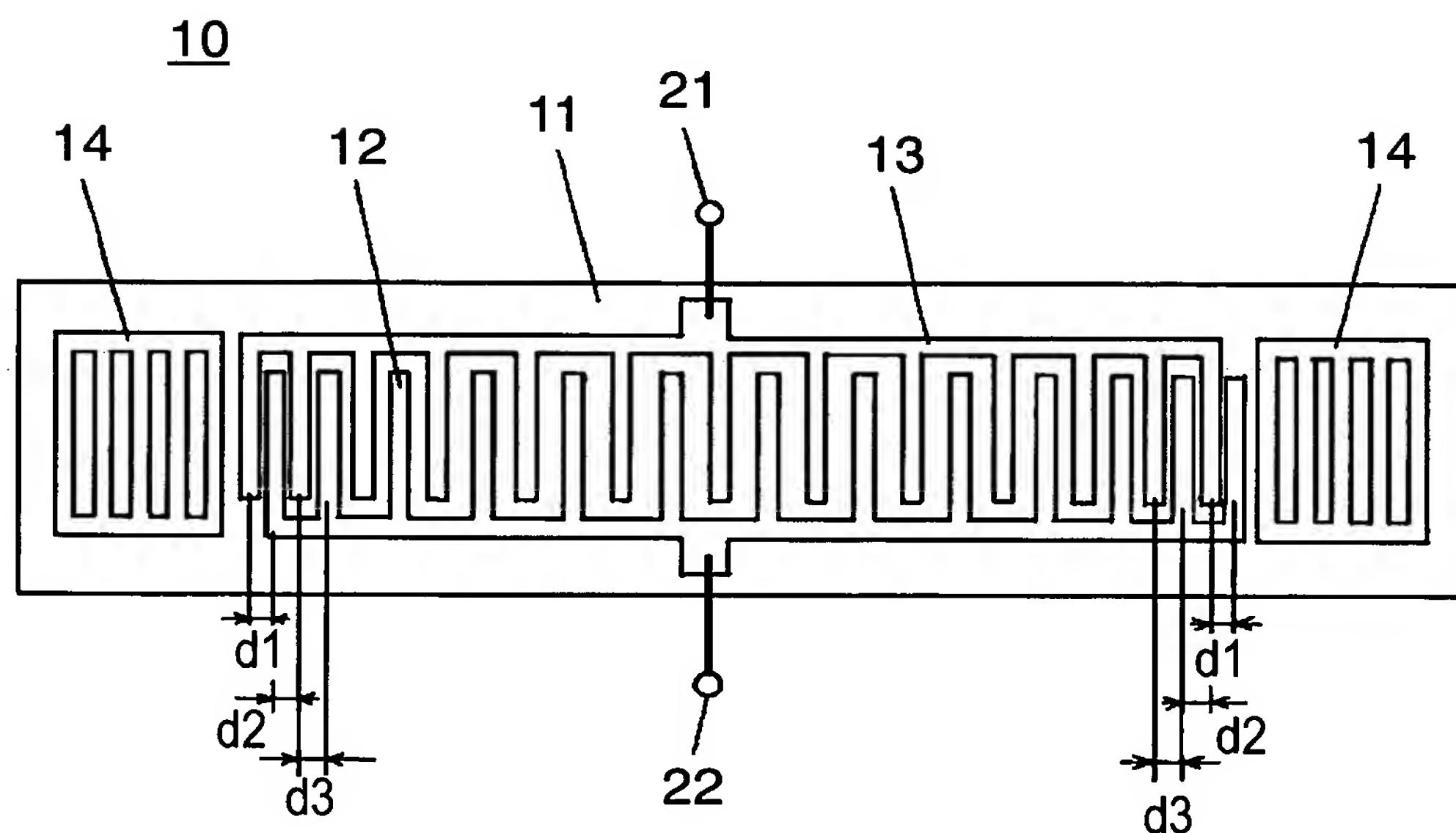


FIG. 2

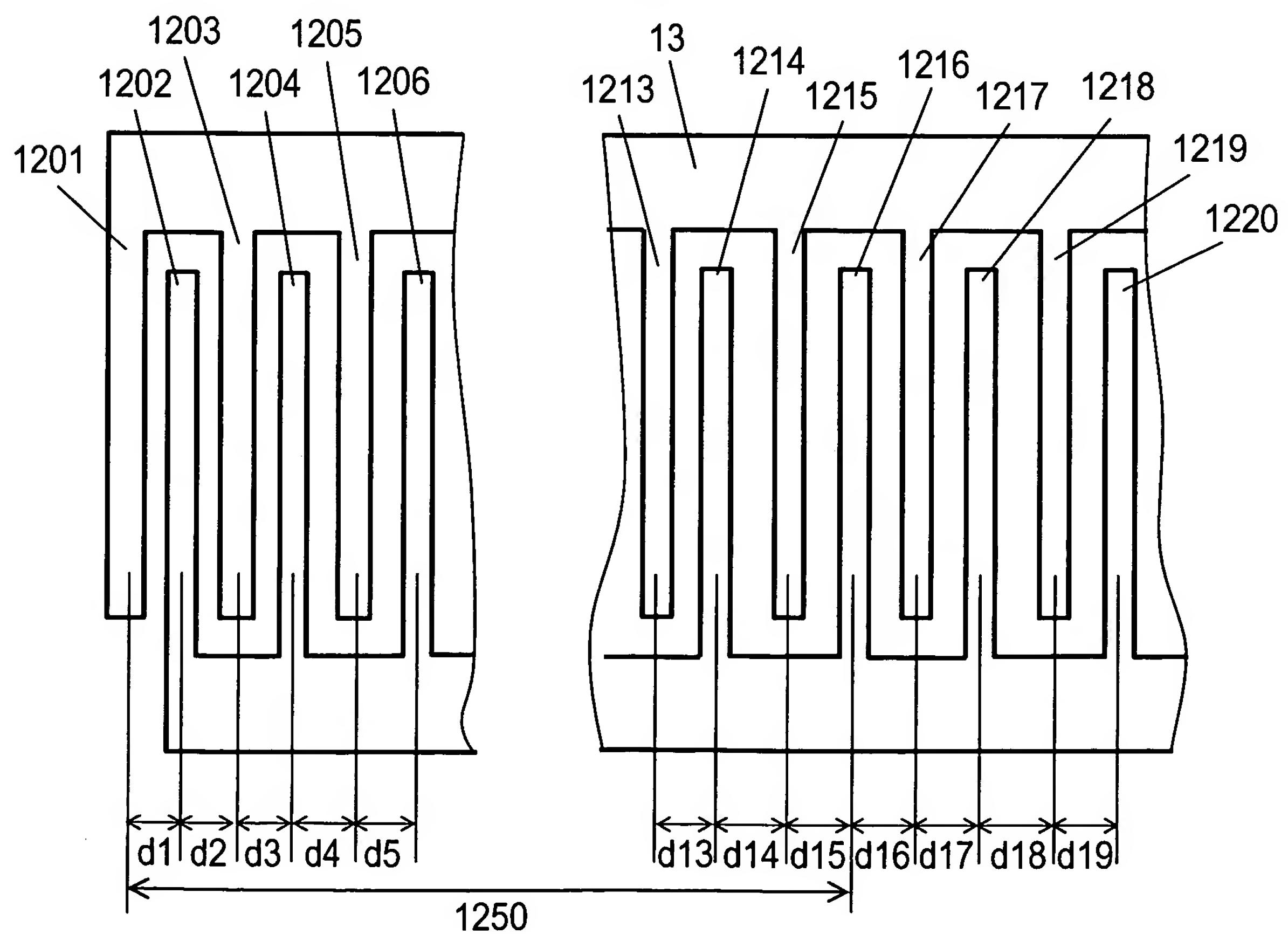


FIG. 3

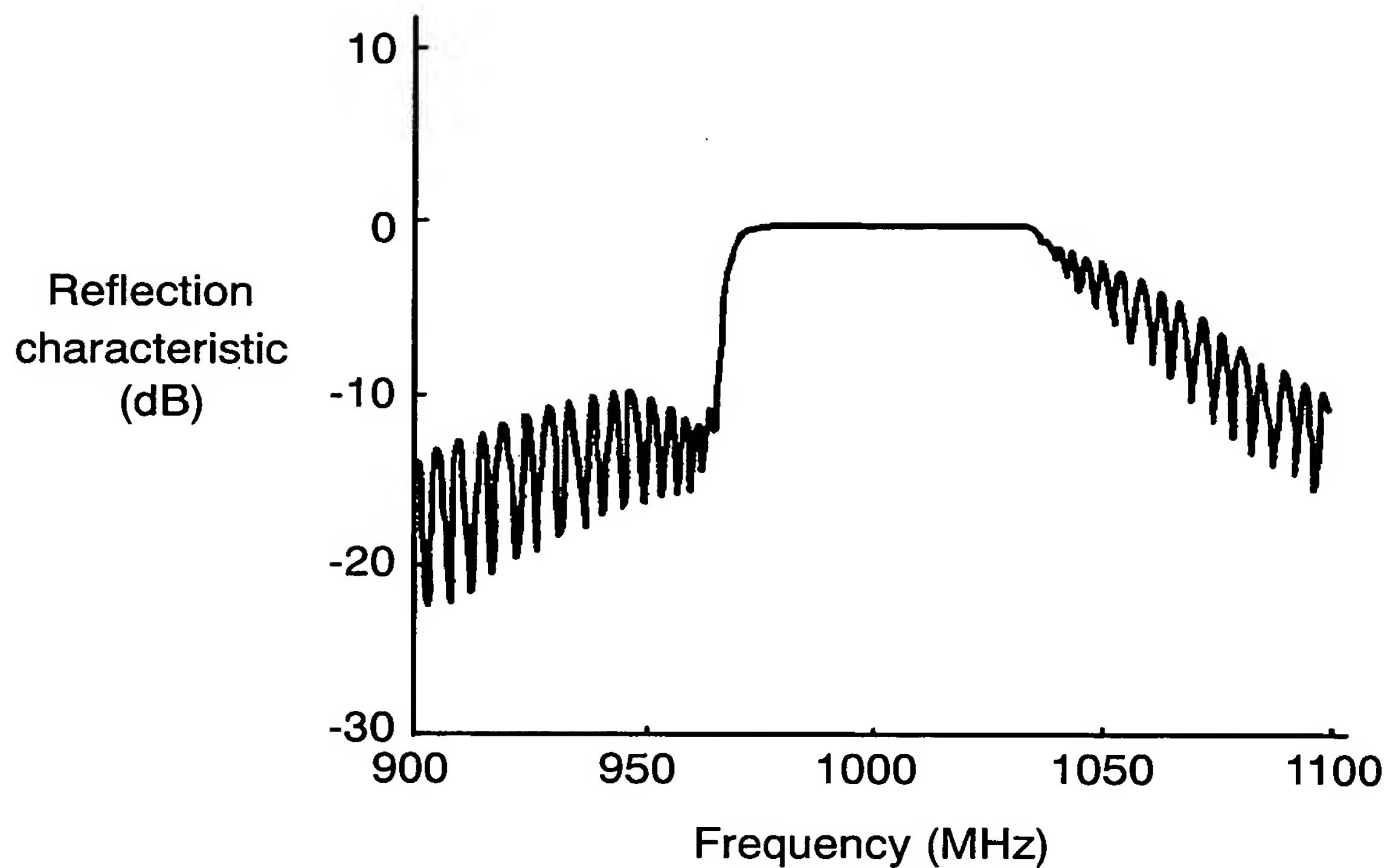
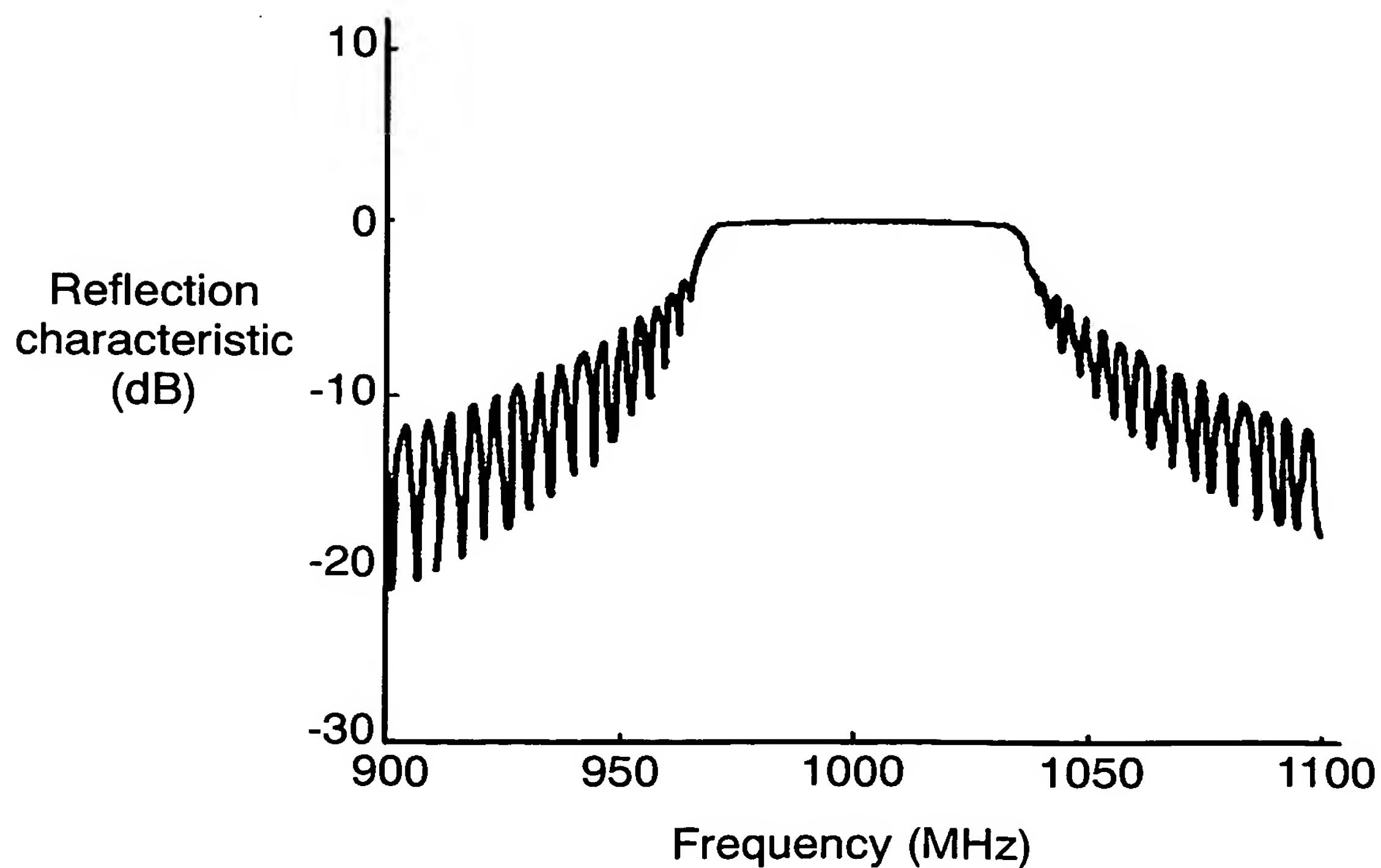
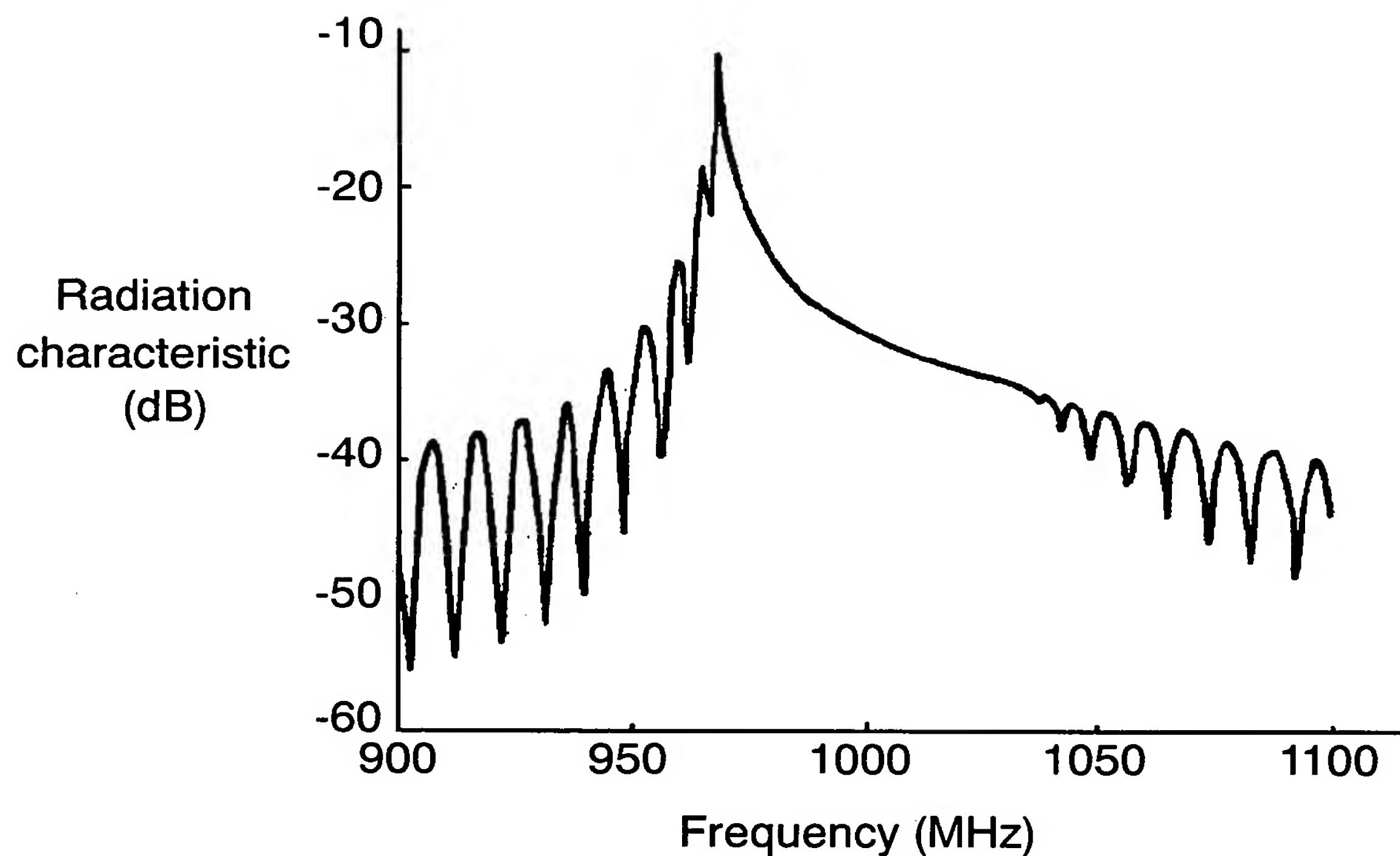
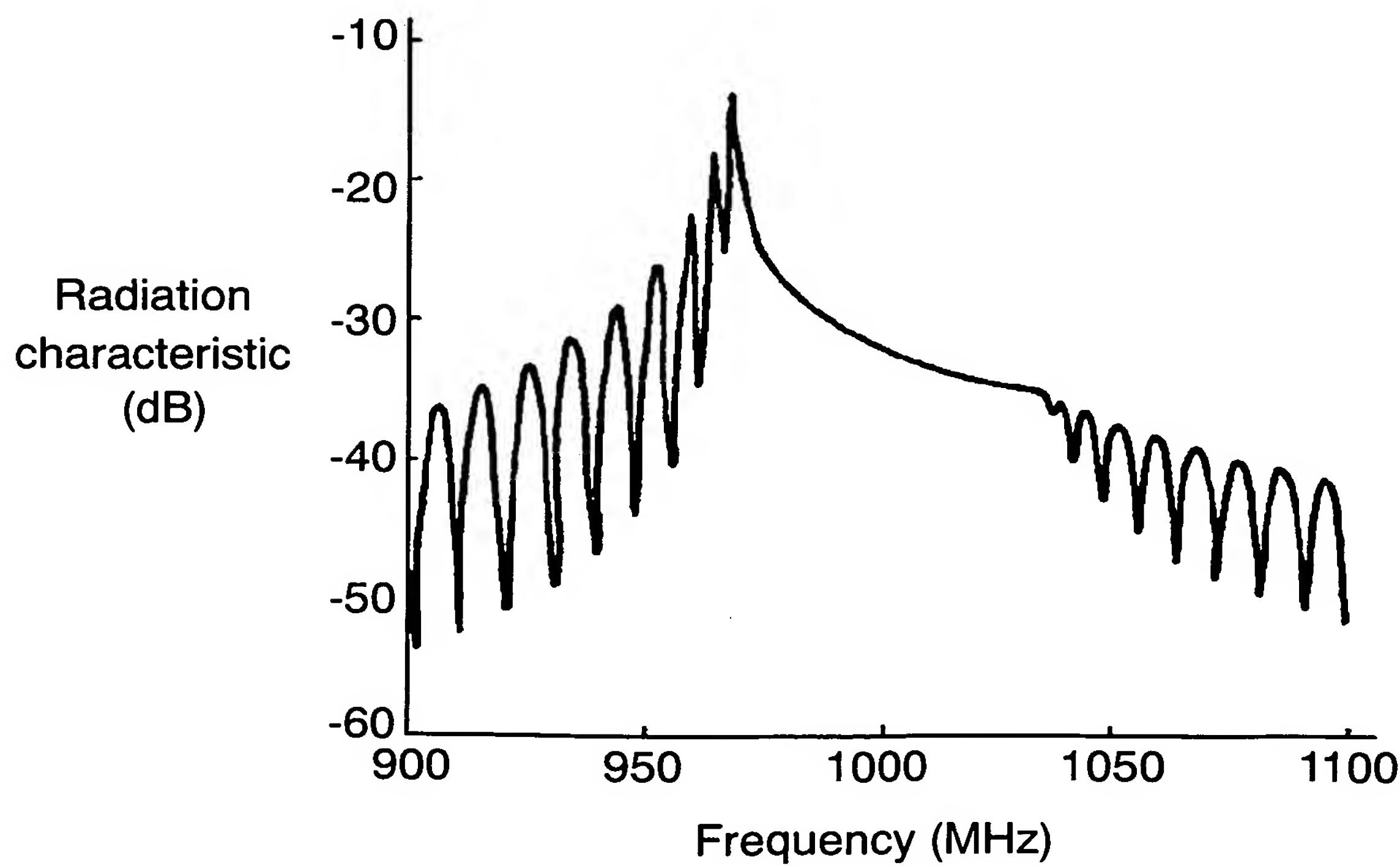


FIG. 4



**FIG. 5****FIG. 6**

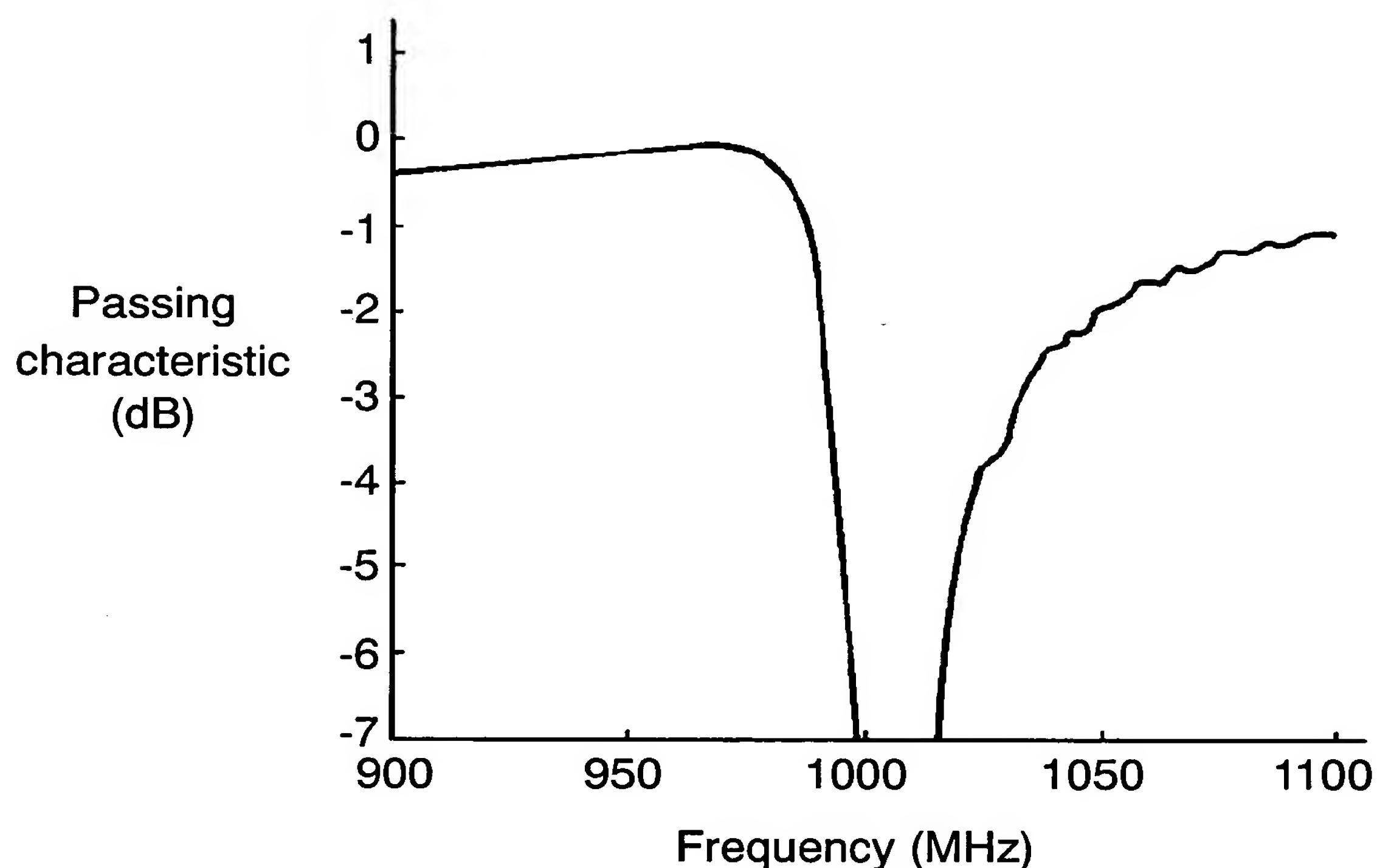
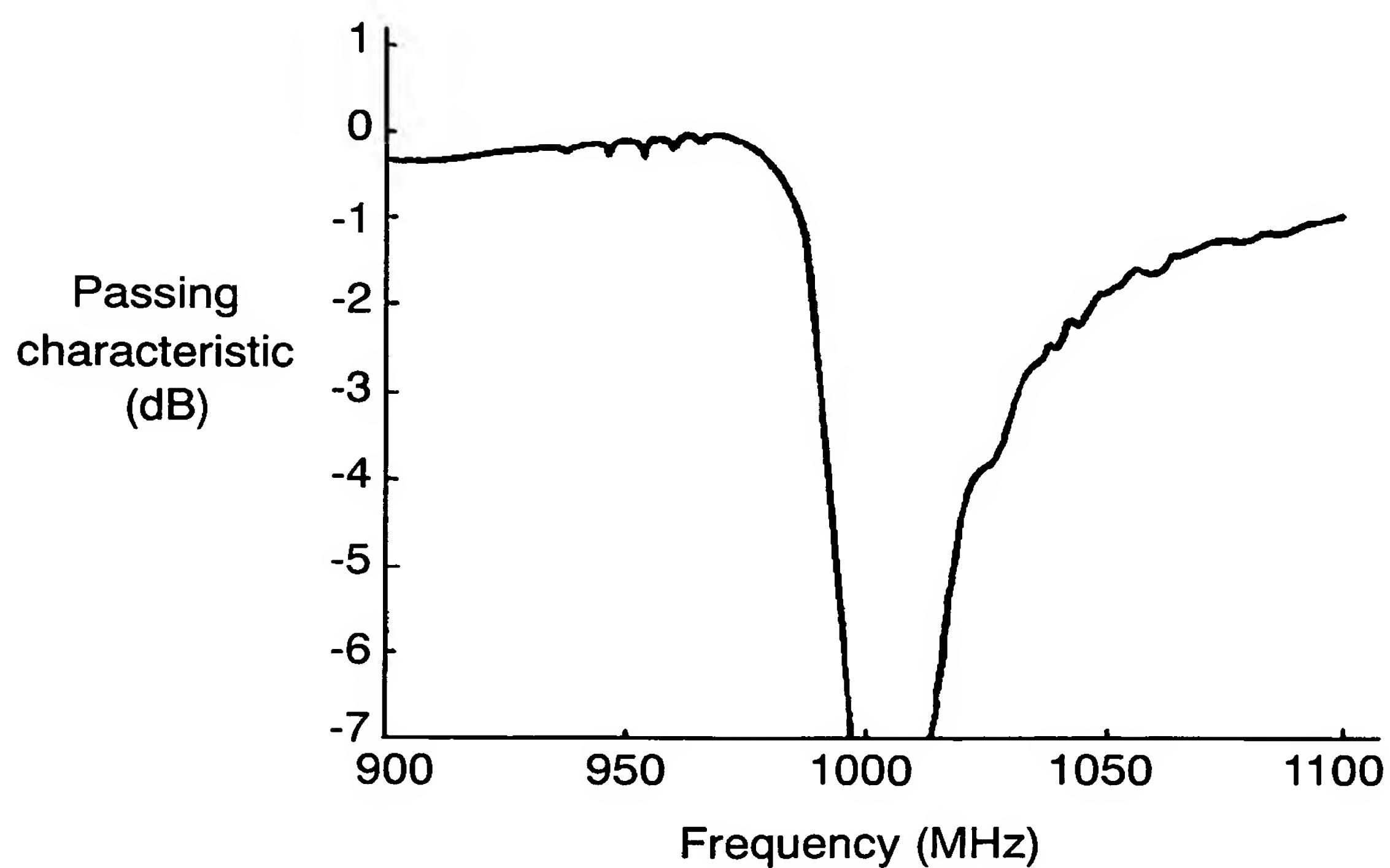
**FIG. 7****FIG. 8**

FIG. 9

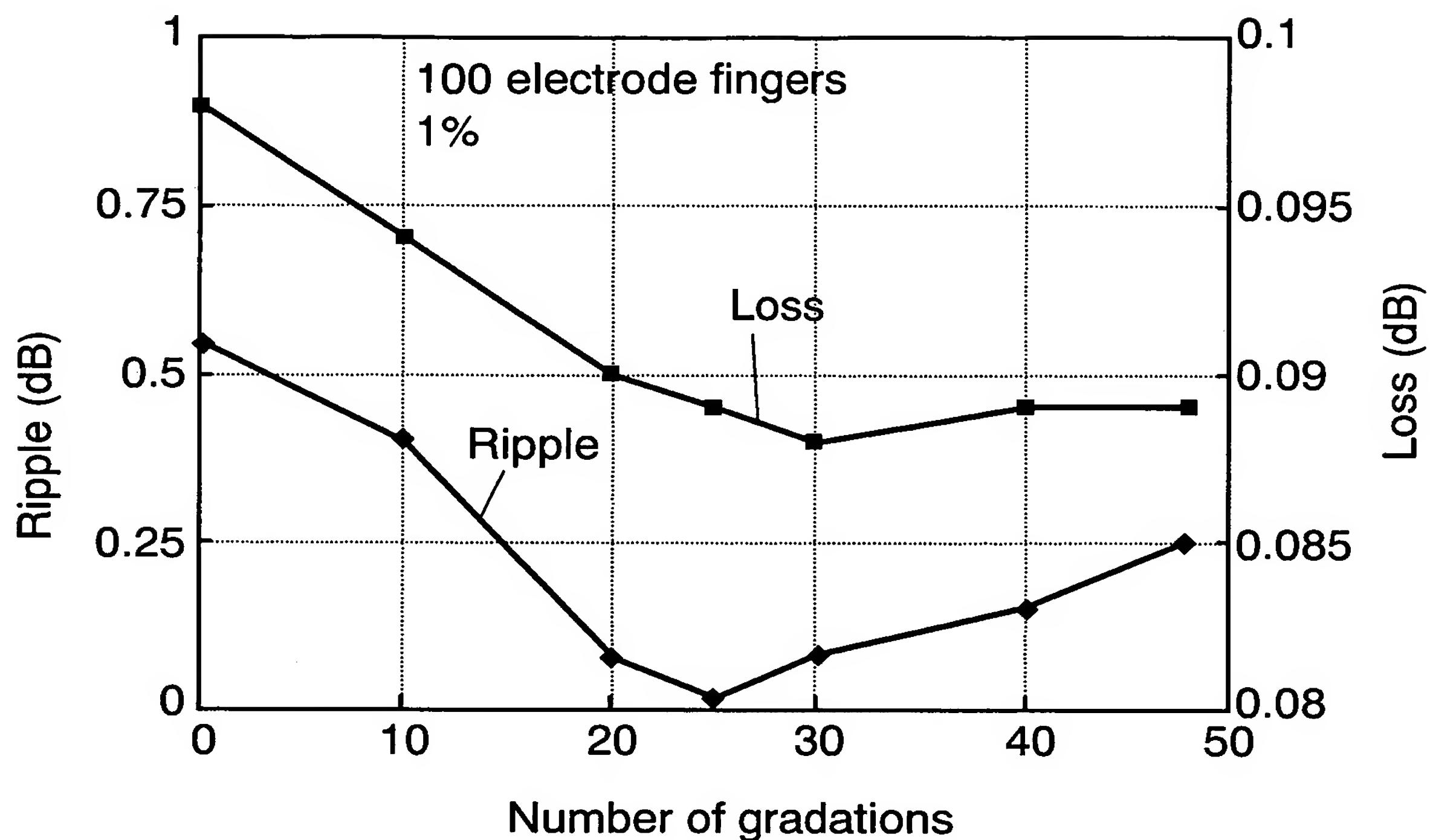


FIG. 10

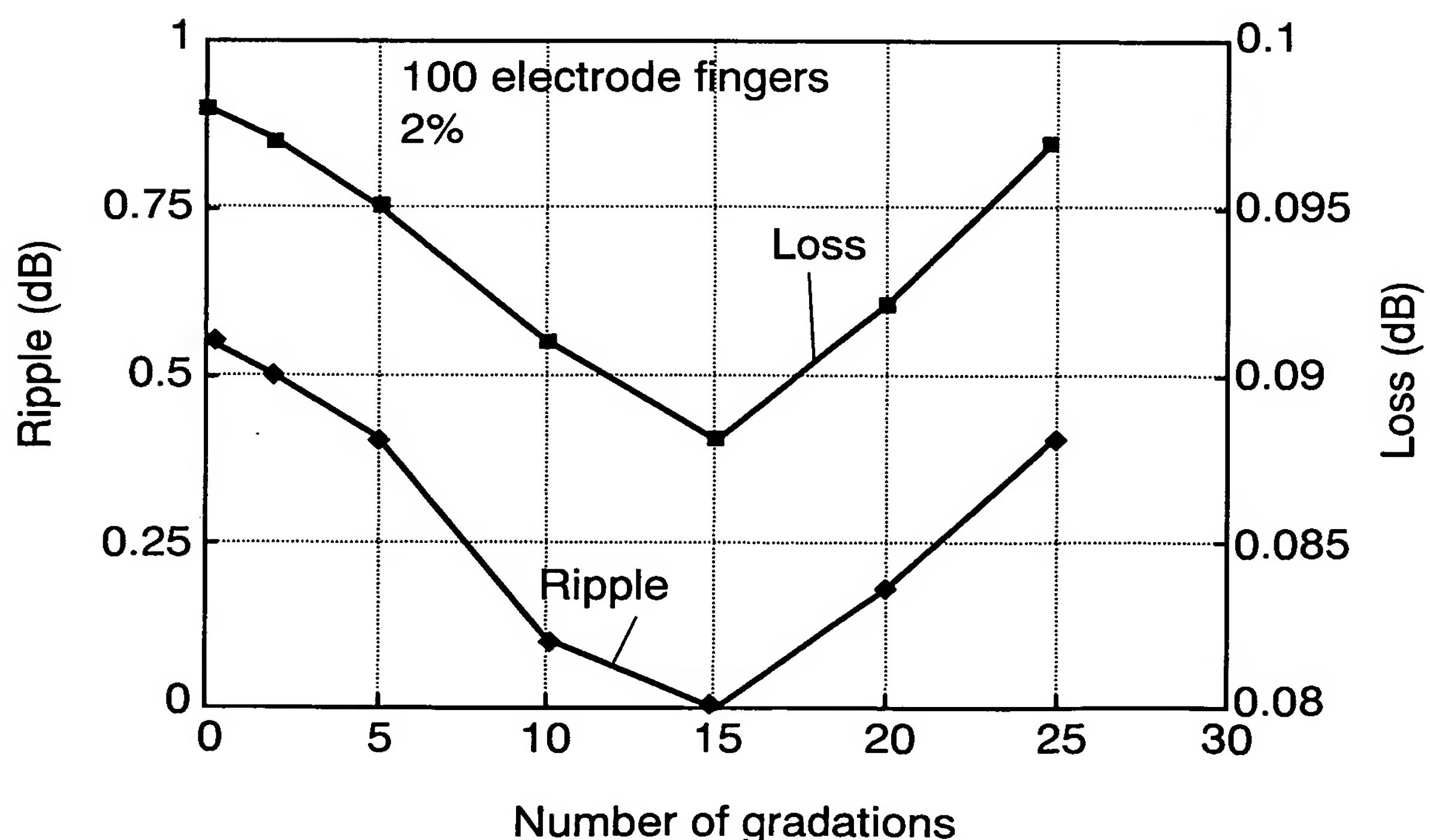


FIG. 11

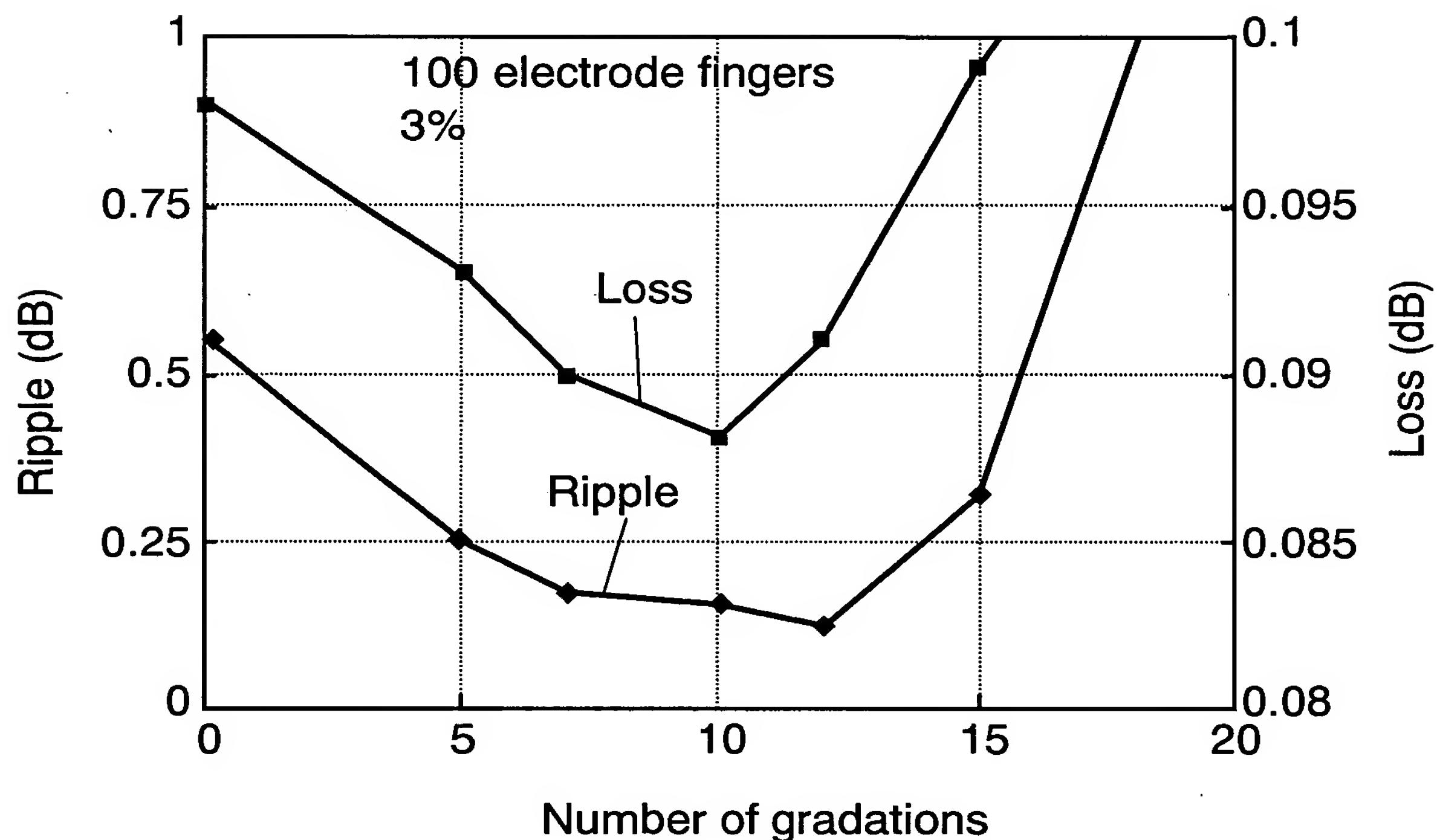


FIG. 12

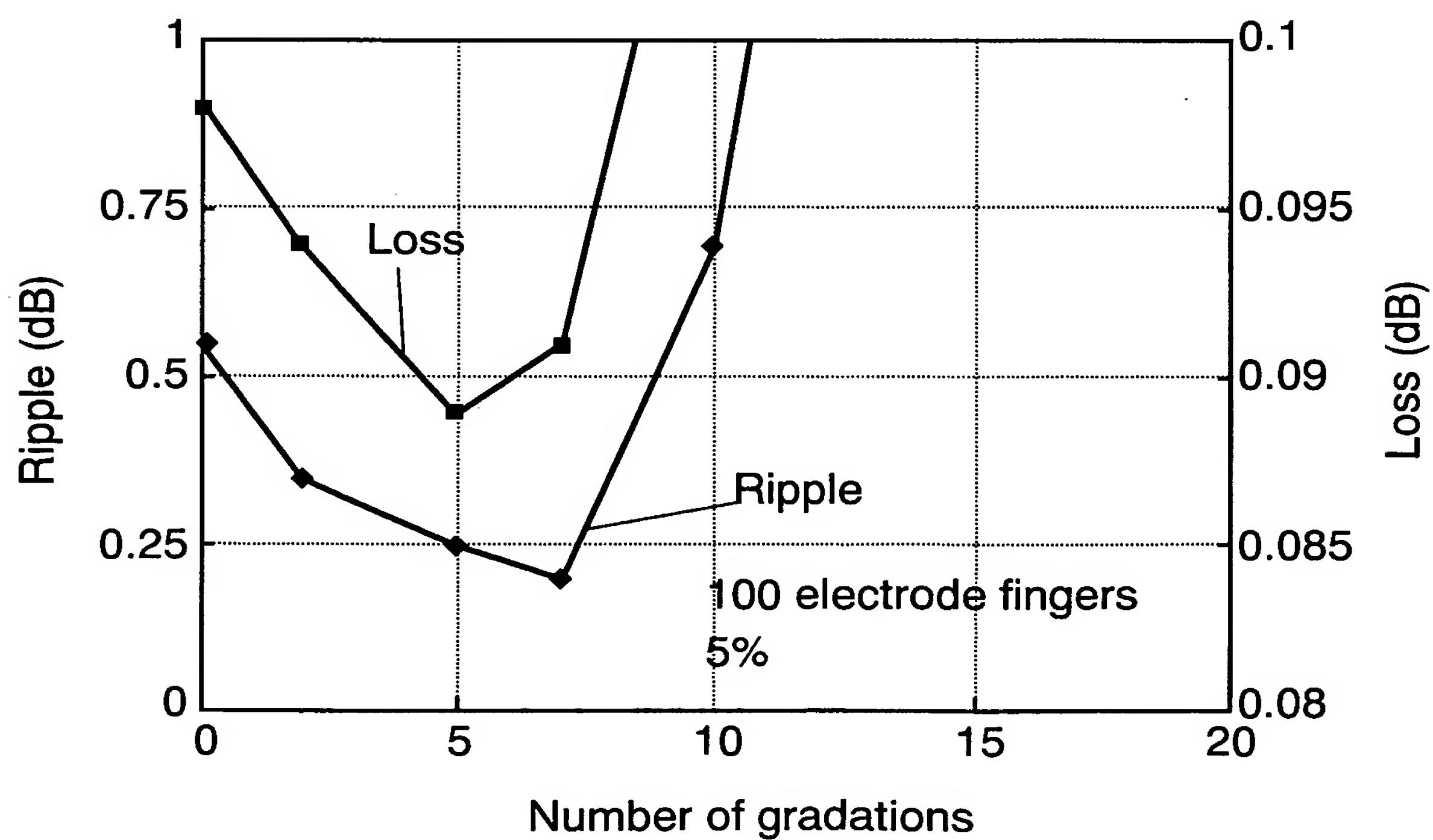


FIG. 13

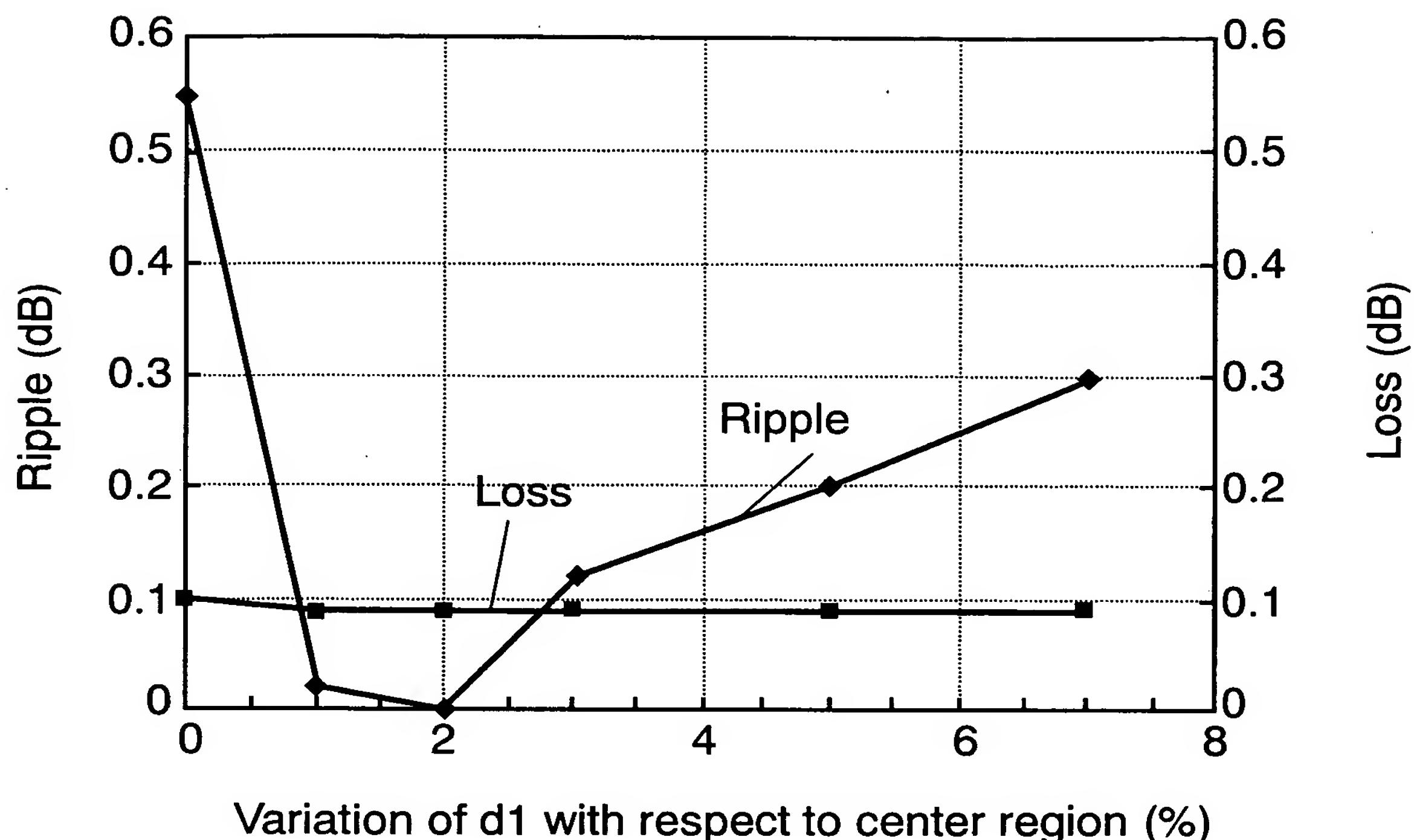


FIG. 14

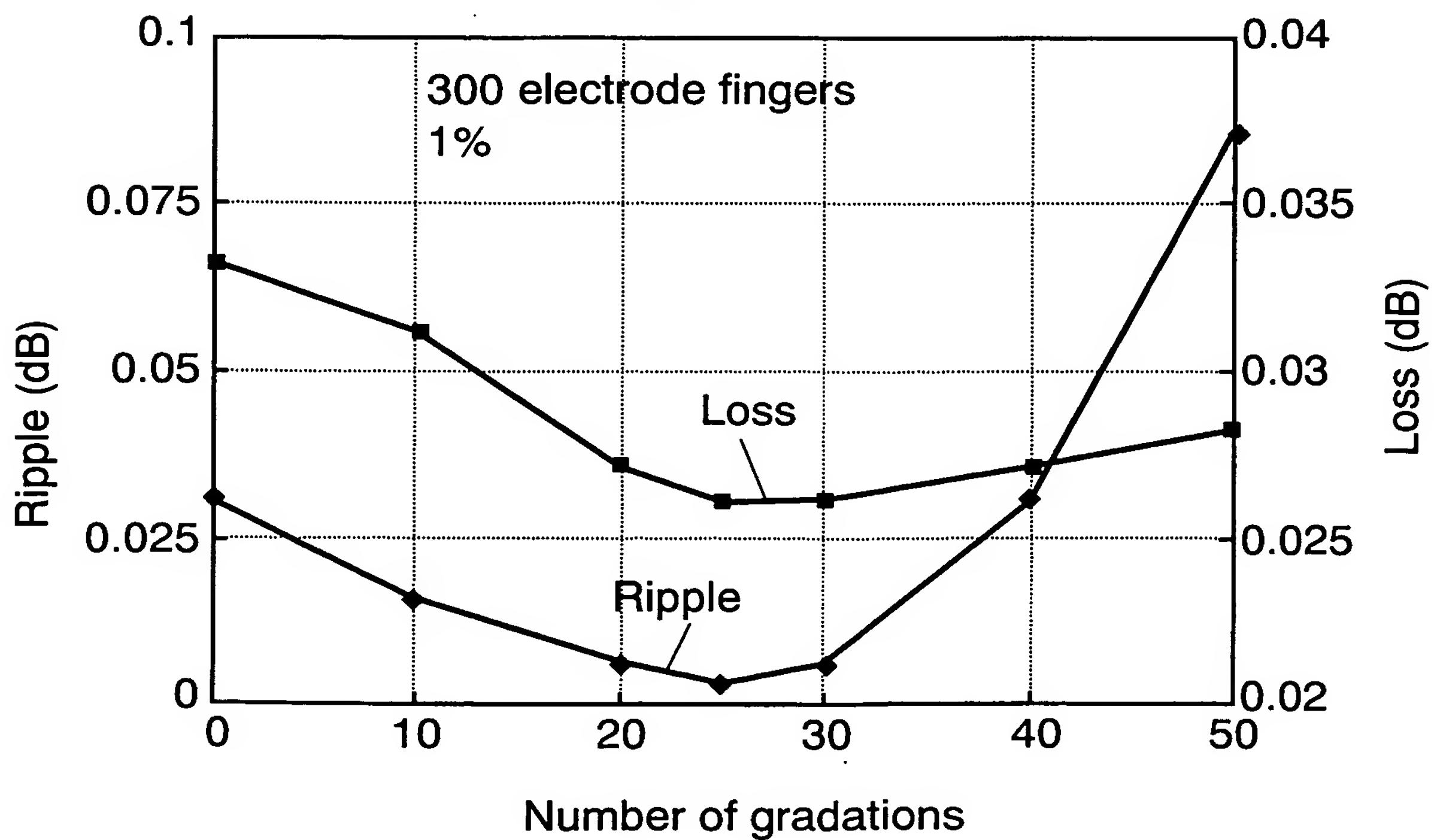


FIG. 15

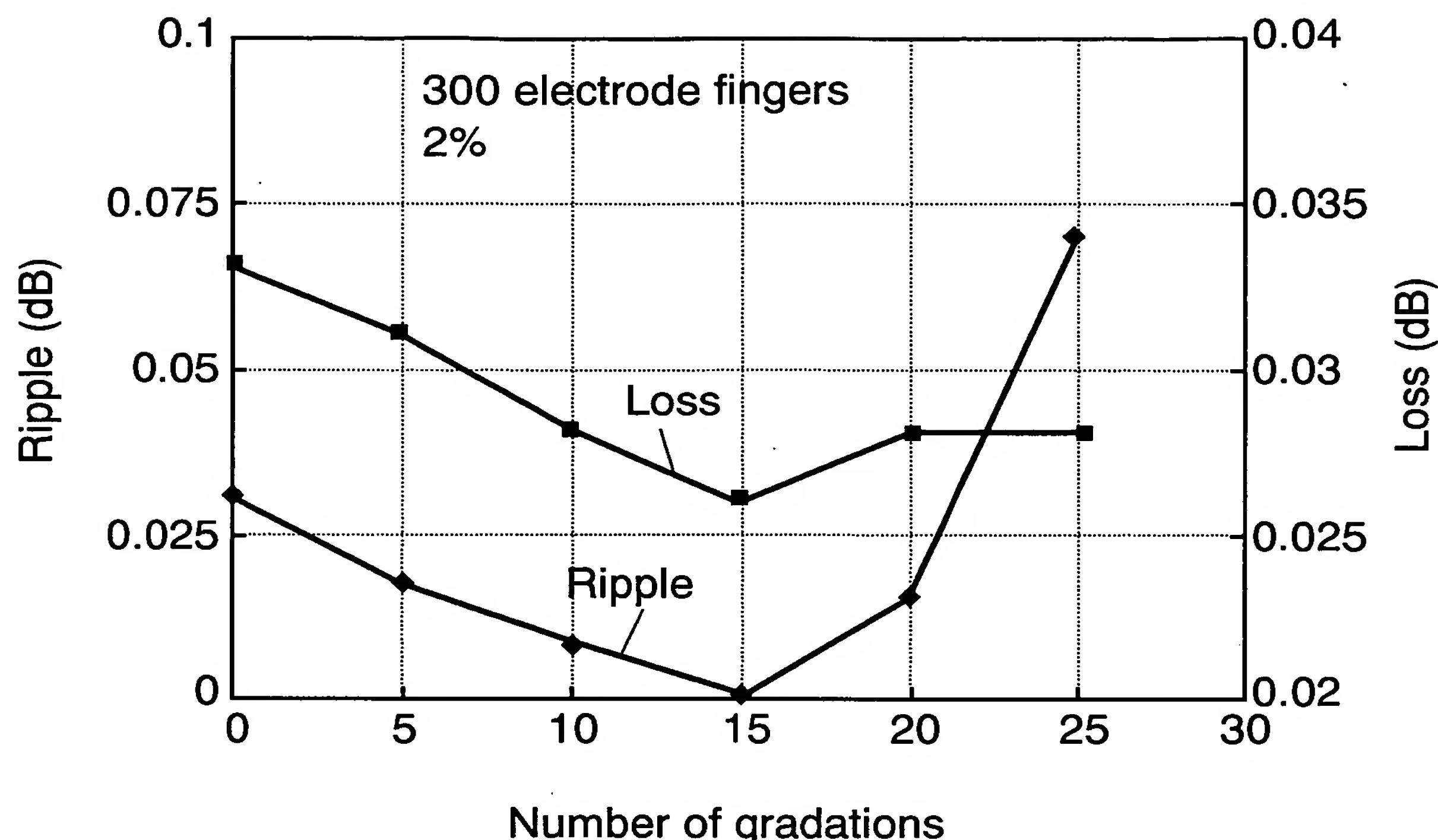


FIG. 16

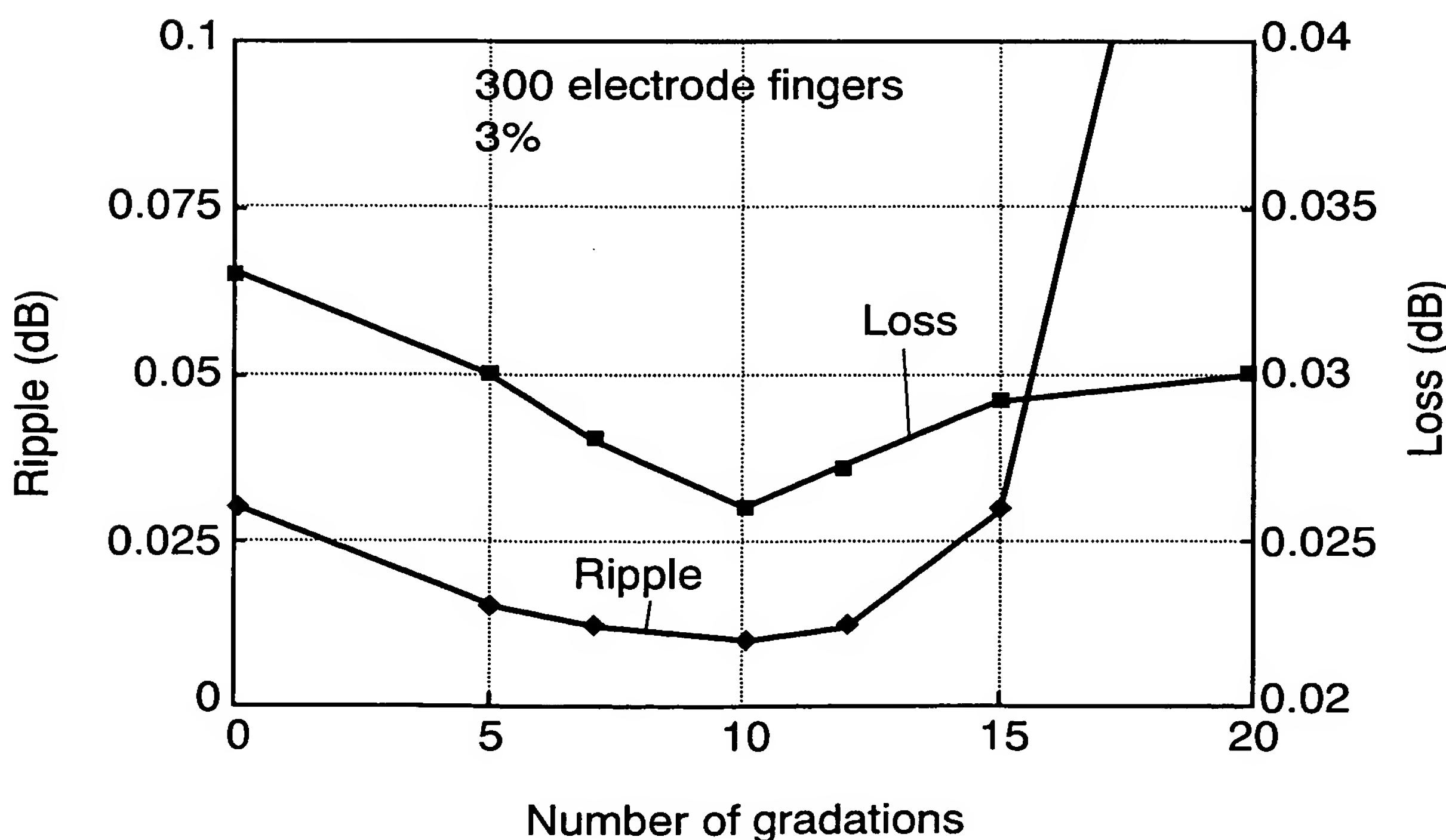


FIG. 17

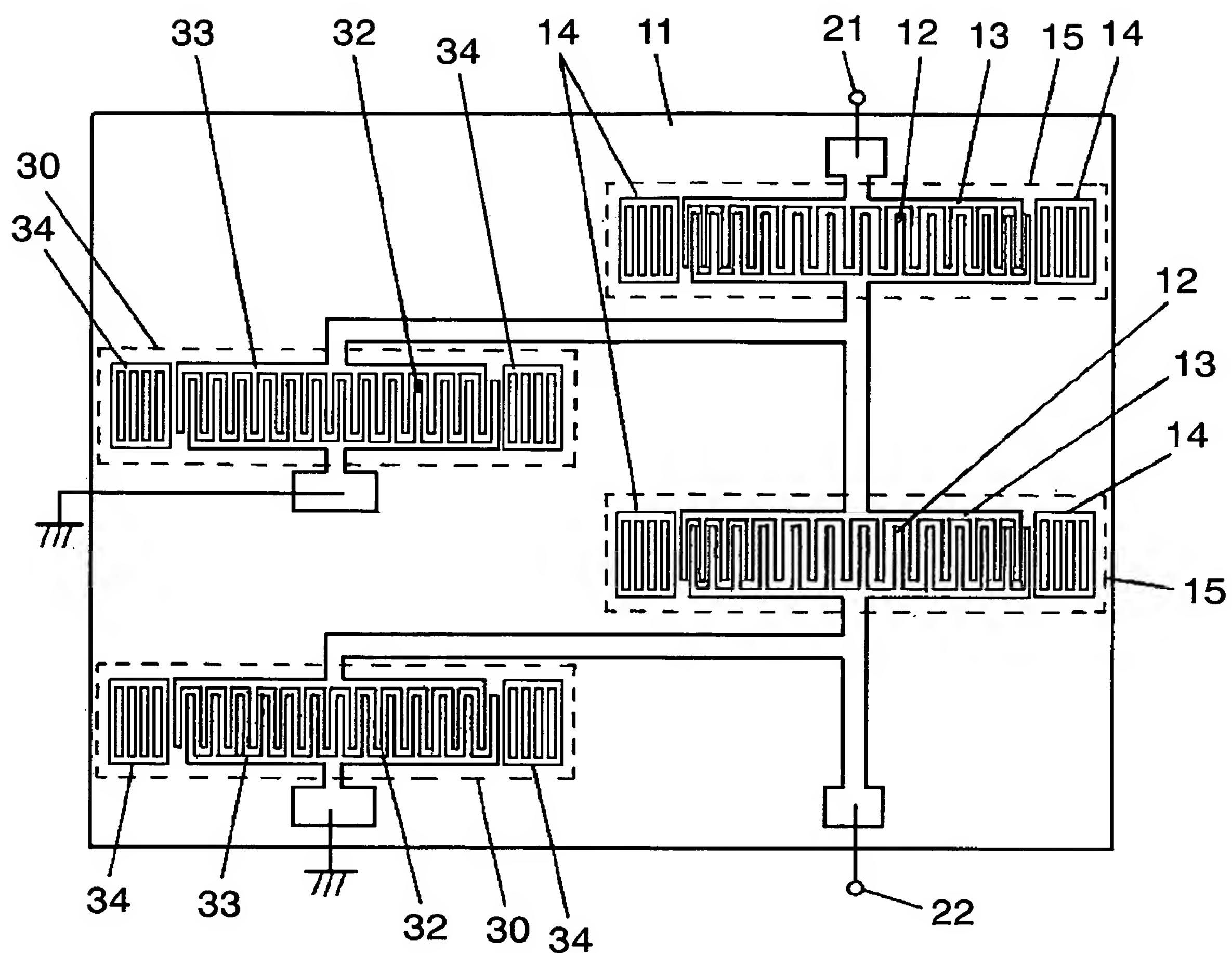


FIG. 18

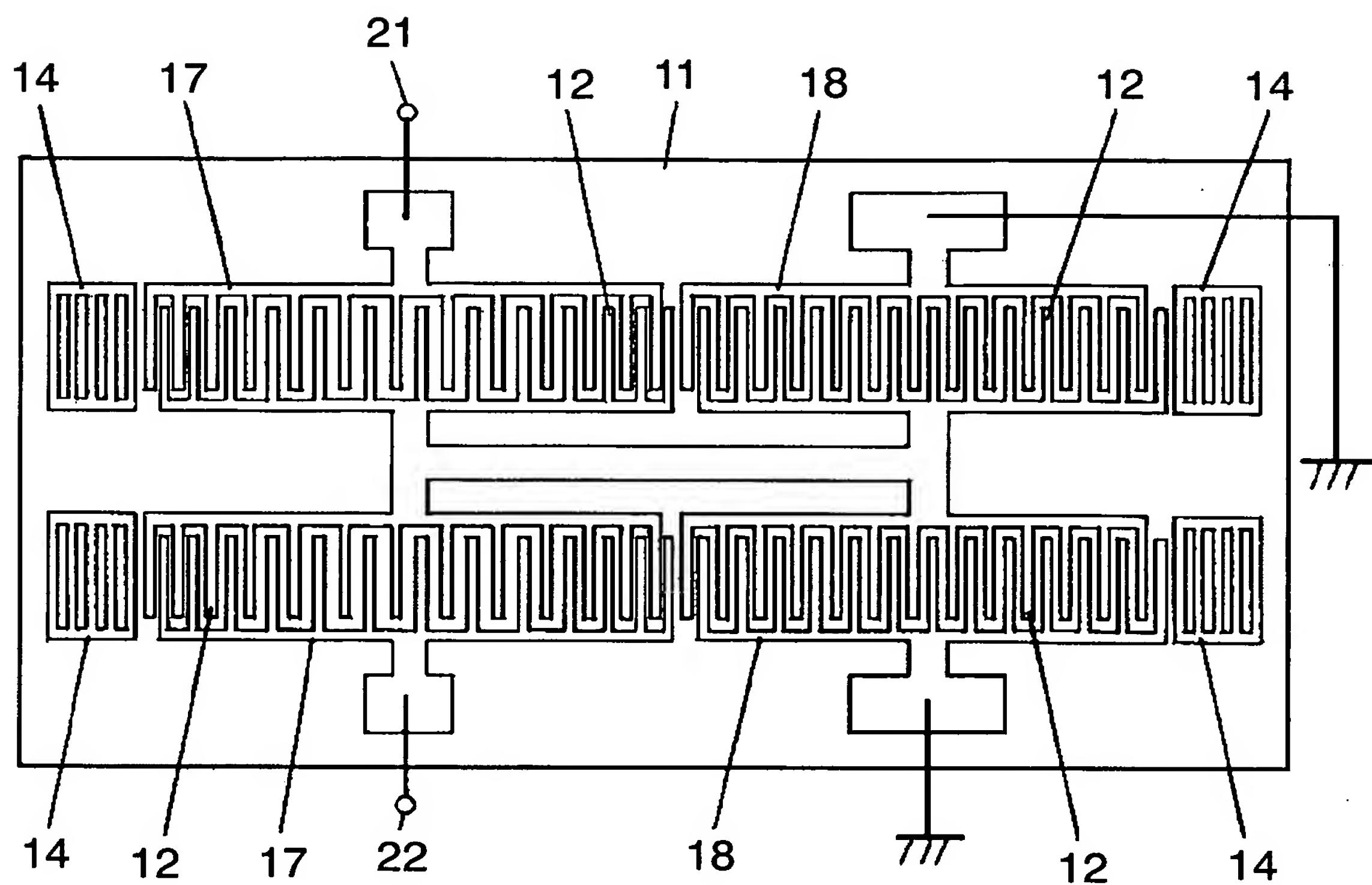
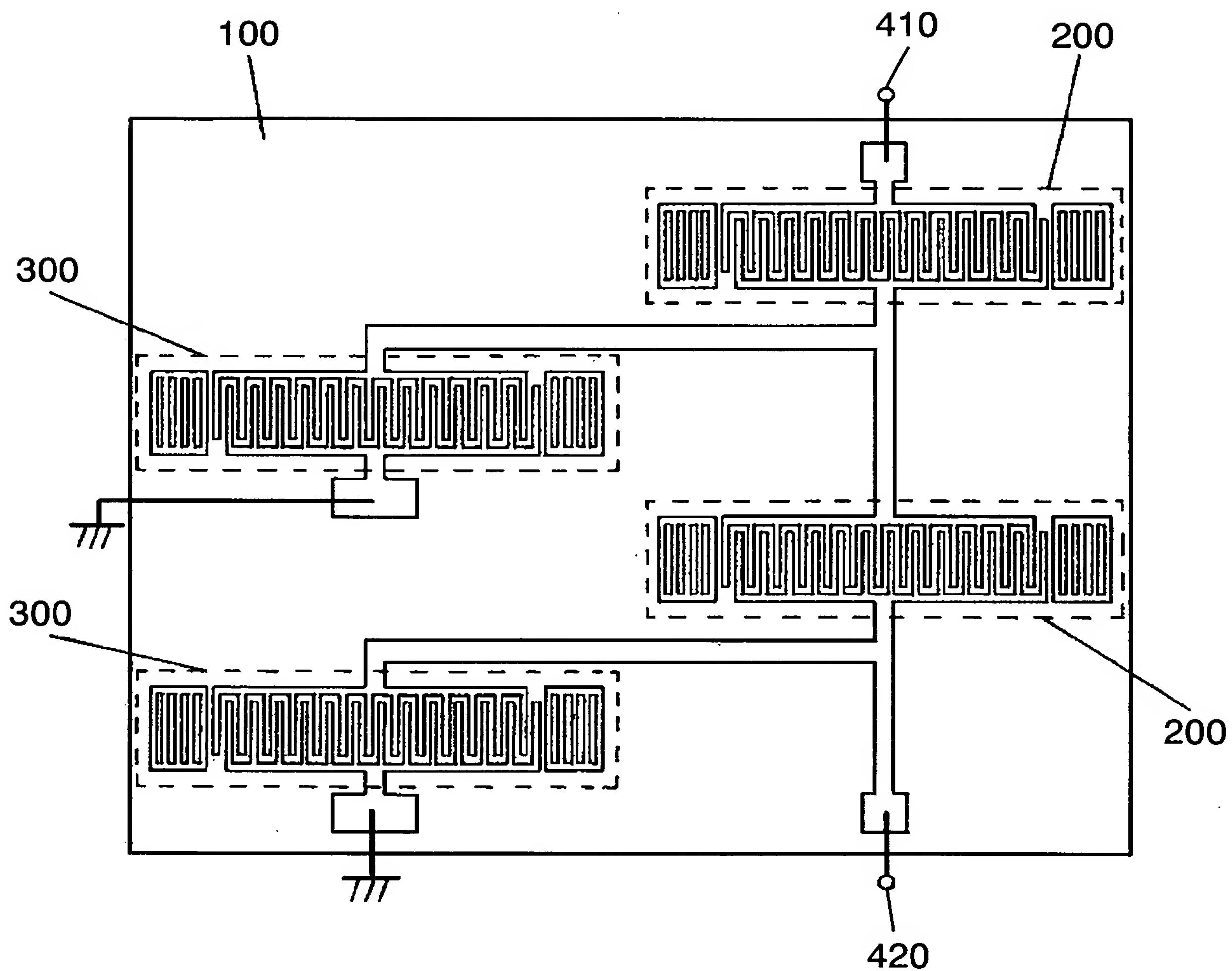


FIG. 19 PRIOR ART



## **Reference marks in the drawings**

- 10, 200, 300 Surface acoustic wave resonators
- 11, 100 Piezoelectric substrates
- 12, 1201, 1202, 1203, 1204, 1205, 1206, 1213, 1214, 1215, 1216, 1217, 1218, 1219, 1220 Electrode fingers
- 13 IDT
- 14 Reflector
- 15 Series resonator
- 16 Parallel resonator
- 17 First IDT
- 18 Second IDT
- 21, 22, 410, 420 Input-output terminals
- 1250 Gradation region